

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>W A D 9 8 0 7 3 8 5 4 6 0 5 0 0 7</b>		Manifest Document No. <b>05007</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address <b>ALASKAN COPPER WORKS P.O. Box 3546, SEATTLE, WA 98124</b>						A. State Manifest Document Number									
						B. State Generator's ID									
4. Generator's Phone ( <b>206-382-8379</b> )						C. State Transporter's ID									
5. Transporter 1 Company Name <i>Philip Transportation &amp; Remediation Inc</i>						6. US EPA ID Number <b>C A D 0 6 3 5 4 7 9 9 6</b>									
7. Transporter 2 Company Name						8. US EPA ID Number									
9. Designated Facility Name and Site Address <b>World Resources Company 8113 W. Sherman St. Tolleson, AZ 85353-4025</b>						10. US EPA ID Number <b>A Z D 9 8 0 7 3 5 5 0 0</b>									
						H. Facility's Phone <b>800-972-1955</b>									
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
						No. Type									
						a. <input checked="" type="checkbox"/> <b>RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III</b>		<b>002 C F</b>		<b>3044</b>		<b>P</b>		<b>F006</b>	
						b.									
						c.									
d.															
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information <b>24 Hour Emergency Response: 1-800-424-9300 CHEMTREC</b> <b>(Use CHEMTREC company code "WORR") Wear gloves &amp; goggles</b> <b>P.O. #m 97618</b>															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name <b>GERARD A. Thompson</b>					Signature <i>[Signature]</i>			Month Day Year <b>11/20/05</b>							
17. Transporter 1 Acknowledgement of Receipt of Materials															
Printed/Typed Name <b>David W Gil</b>					Signature <i>[Signature]</i>			Month Day Year <b>11/20/05</b>							
18. Transporter 2 Acknowledgement of Receipt of Materials															
Printed/Typed Name <b>Ken Archambault</b>					Signature <i>[Signature]</i>			Month Day Year <b>11/21/05</b>							
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name <b>DAVY RODRIGUEZ</b>					Signature <i>[Signature]</i>			Month Day Year <b>11/21/05</b>							

WORLD RESOURCES  
11:21AM 12/14/2005  
GROSS 1742 lb  
TARE 77 lb  
NET 1665 lb  
WORLD RESOURCES  
11:22AM 12/14/2005  
GROSS 1306 lb  
TARE 77 lb  
NET 1229 lb  
ACCUM 3894 lb  
12/14/2005 11:22AM

1.45  
TONS

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>WA D 9 8 0 7 3 8 5 4 6 0 5 0 0 7</b>		Manifest Document No. <b>605007</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address <b>ALASKAN COPPER WORKS P.O. Box 3546, SEATTLE, WA 98124</b>		6. US EPA ID Number <b>WA D 0 6 3 5 4 7 1 7 4</b>		A. State Manifest Document Number			
4. Generator's Phone <b>206-382-8379</b>		7. Transporter 2 Company Name		8. US EPA ID Number		B. State Generator's ID			
5. Transporter 1 Company Name <b>Phil's Transportation &amp; Maintenance Inc.</b>		9. Designated Facility Name and Site Address <b>World Resources Company 8113 W. Sherman St. Tolleson, AZ 85353-4025</b>		10. US EPA ID Number <b>A Z D 9 8 0 7 3 5 5 0 0</b>		C. State Transporter's ID			
						D. Transporter's Phone			
						E. State Transporter's ID			
						F. Transporter's Phone			
						G. State Facility's ID			
						H. Facility's Phone <b>800-972-1955</b>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. <b>RM, Hazardous waste, solid, n.o.s., (P008), 9, NA3077, III</b>		No. <b>002</b> Type <b>CF</b>		<b>3044</b>		<b>P</b>		<b>P008</b>	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above (Isopropyl alcohol, acetone, methanol, etc.) and Handling Codes for Wastes Listed Above <small>Standard method will be used for determining hazard class and ID number. If a different method is used, the generator must provide a written explanation of the method used and the results of the determination. The generator must also provide a written explanation of the method used for determining the hazard class and ID number. The generator must also provide a written explanation of the method used for determining the hazard class and ID number.</small>									
15. Special Handling Instructions and Additional Information <b>24 Hour Emergency Response: 1-800-424-9300 CHEMTREC</b> <b>(Use CHEMTREC company code "WORR") Wear gloves &amp; goggles</b> <b>P.O. # 97618</b>									
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Printed/Typed Name <b>GERARD A. THOMPSON</b>					Signature <i>[Signature]</i>			Month Day Year <b>12 05 05</b>	
17. Transporter 1 Acknowledgement of Receipt of Materials					Signature <i>[Signature]</i>			Month Day Year <b>12 05 05</b>	
Printed/Typed Name <b>David W. Gil</b>					Signature <i>[Signature]</i>			Month Day Year <b>12 05 05</b>	
18. Transporter 2 Acknowledgement of Receipt of Materials					Signature			Month Day Year	
Printed/Typed Name									
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name					Signature			Month Day Year	



# Material Safety Data Sheet

MSDS ID # AZ-10-B

F006 Recyclable Material (Filter Cake)

Recycler:

**World Resources Company**

8113 West Sherman Street

Tolleson, Arizona 85353-4025

Tel: 602-233-9166 Fax: 623-936-9164

January 2005 DLS

Call CHEMTREC only in the event of  
emergencies during shipping that  
involve a spill, leak, fire or accident  
(all calls are recorded)

For Emergencies During Shipping in  
the US or Canada, Day or Night,

Call: **CHEMTREC 800-424-9300**

Use CHEMTREC Company Code "WORR"

From other countries call: 703-527-3887

## Section 1

## Material Identification

**EPA Waste Classification:** F006**Generic Name:** Electroplating/Metal-Finishing Wastewater Treatment Sludge**Chemical Family:** Metallic (Hydroxide) Precipitates**Synonym:** Non-ferrous Metal Hydroxide Filter Cake**DOT Shipping Name:** RQ, Hazardous waste solid, n.o.s. (F006)**DOT Hazard Class:** 9**DOT Packing Group:** III**DOT Identification Number:** NA 3077

Guide 171 of the North American Emergency Response Guidebook Applies

## Section 2

## Hazardous Ingredients

Ingredient:	CAS Number:	Content (%):	OSHA PEL (8hr TWA):	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg(Cu)/m <sup>3</sup> (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg(Ni)/m <sup>3</sup> (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0 - 15	15.0 mg/m <sup>3</sup> (Dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0 - 10	6.0 mg/m <sup>3</sup> (Dust)	LD-50 Not Determined

## Section 3

## Physical and Reactivity Data

<b>Description:</b> Solid, Clay-like, Gray/Green to Brown, Moisture ~ 30 - 80%	<b>Density:</b> 50 - 90 lbs/ft <sup>3</sup>	<b>Boiling Point:</b> Above 2,600°C
<b>Specific Gravity:</b> 2.5 to 3.5	<b>Incompatible Reactivity:</b> None Known	<b>Melting Point:</b> Above 1,800°C
<b>Solubility:</b> Insoluble in Water	<b>Vapor Pressure:</b> Insignificant	<b>pH:</b> 7.0 to 10.0
	<b>Stability:</b> Avoid Contact with Acids	<b>Odor:</b> Nil
		<b>Polymerization:</b> Will Not Occur

## Section 4

## Fire and Explosion Data

<b>Flashpoint:</b> Nonflammable	<b>Oxidation:</b> Non-oxidizing
<b>Special Firefighting Procedures:</b> None	<b>Explosive:</b> Non-explosive
<b>Decomposition (Due to Fire or Explosion):</b> None	

**NFPA  
Fire Diamond**

## Section 5

## Toxicity

<b>Listed Carcinogen Components:</b> Nickel	<b>Toxicology:</b> See Sec. 2	<b>Route of Entry:</b> Inhalation, Ingestion
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## Section 6

## Health Effects and First Aid

<b>Inhalation:</b> Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
<b>Ingestion:</b> Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.
<b>Eyes:</b> Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.
<b>Skin:</b> Dust may irritate skin with prolonged contact. Wash with soap and water.
<b>Comments:</b> Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions. Unprotected long-term overexposure may cause effects to the following target organs or body systems - blood, digestive, respiratory, liver, kidneys and skin.

## Section 7

## Precautions for Safe Handling

<b>Handling:</b> Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with this material. The PPE should include eye protection, respirator and gloves.
<b>Storage:</b> Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.
<b>Spills:</b> Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to consignee or return to World Resources Company at the above address.

## Section 8

## Control Measures

<b>Respiratory Protection:</b> NIOSH-MSHA approved respirators as required.	<b>Eye Protection:</b> Safety glasses recommended.
<b>Other Protective Equipment:</b> Coveralls are recommended, but not required.	<b>Hand Protection:</b> Gloves recommended.

## Section 9

## Generator's Verification

This MSDS describes the material listed in the attached Manifest #: 05007

**Company Name:** ALASKAN COPPER WORKS**Company Address:** P.O. Box 3546, SEATTLE, WA, 98124**Telephone:** 206-382-8379**Date:** 12-8-05**Signature:**

**WORLD RESOURCES COMPANY**

ARIZONA RECYCLING FACILITY

*In partnership with the environment***LDRN****LAND DISPOSAL RESTRICTION NOTICE****F006**

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To:	<b>WORLD RESOURCES COMPANY</b>	<b>8113 West Sherman Street, Tolleson AZ 85353-4025</b>
From:	COMPANY NAME: <b>ALASKAN COPPER WORKS</b>	COMPANY ADDRESS: <b>P.O. Box 3546, SEATTLE, WA, 98124</b>
MANIFEST NUMBER:	<b>05007</b>	DATE OF SHIPMENT: <b>12/8/05</b>

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268.  
The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	non-wastewater	40 CFR §268.40

SIGNATURE:		TITLE:	<b>Enviro. Asst.</b>
NAME PRINTED:	<b>GERALD Thompson</b>	DATE:	<b>12-08-05</b>

**Instructions for Completion of this Land Disposal Restriction Notice [LDRN]**

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

An F006 designation on the LDRN includes the following constituents: cadmium [D006], chromium [D007], lead [D008], silver [D011], cyanide, and nickel. However, the designation does not include arsenic [D004], barium [D005], mercury [D009], or selenium [D010]. If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below [as stated in 40 CFR §268.9].

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then **no additional entry** is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) **must be added** to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE		
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40

**F006 GENERATORS**

## MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:  
Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III

NORTH AMERICAN  
EMERGENCY  
RESPONSE

# TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK (Underlined text applies directly to the material listed above)

## POTENTIAL HAZARDS

### FIRE OR EXPLOSION

1. Some may burn but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated.
4. Some may be transported hot.

### HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

## PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

### PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

### EVACUATION

#### Fire

1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

### FIRE

## EMERGENCY RESPONSE

#### Small Fires

1. Dry chemical, CO<sub>2</sub>, water spray or regular foam

#### Large Fires:

1. Water spray, fog or regular foam.
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire-control water for later disposal.

#### Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks

### SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

#### Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

#### Small Spills

1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.


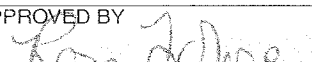
#### Large Spills

1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

### FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.



REQUESTED BY 	DATE 12-8-05	APPROVED BY 	DATE 12-08-05
<input type="checkbox"/> HERE FOR RETURN OF YELLOW COPY		TO BE FILLED IN BY PURCHASING DEPT.	
PURPOSE OR USE		P.O. NUMBER M97618	
DELIVERY NEEDED BY		VENDOR World Resources Co.	
SHIP TO ADDRESS		CONTACT	TELEPHONE NO.
SUGGESTED VENDOR World Resources Co.		DELIVERY PROMISED	SHIP VIA VT